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EVIDENCE-BASED PRACTICE

It is the position of the American Speech-Language-Hearing Association that audiologists and speech-language pathologists incorporate the principles of evidence-based practice in clinical decision making to provide high quality clinical care. The term evidence-based practice refers to an approach in which current, high-quality research evidence is integrated with practitioner expertise and client preferences and values into the process of making clinical decisions.

Participants are encouraged to actively seek and critically evaluate the evidence basis for clinical procedures presented in this and other educational programs.

*Adopted by the Scientific and Professional Education Board, April 2006*
INTRODUCTION

The first article discusses how electrophysiological measures can supplement traditional audiometric evaluation in assessment of age-related hearing loss (ARHL). Perceptual consequences of ARHL in part, can be attributed to a reduced ability to accurately process temporal and frequency cues of speech. The frequency following response and cortical auditory evoked potential measures may be used to identify deficits in the neural processing of speech and guide management of ARHL. The second article shares current evidence supporting an association between cognitive impairment and hearing loss. Research is ongoing to determine whether management of hearing loss with amplification devices and auditory rehabilitation reduces the risk for cognitive decline. The third article highlights a novel pharmaceutical intervention for ARHL. Specifically, the paper focused on AUT00063, a small molecule that modifies a critical ion channel, Kv3, involved in repolarization of a neural action potential within the central auditory pathway. The final article focuses on the aspects of cognition that are most relevant to behavioral auditory research and provides an overview of cognitive hearing science, auditory neuroscience, and electrophysiological measures ideal for studying how the brain processes speech.

LEARNING OUTCOMES
You will be able to:

- describe the effects of aging, hearing loss, and amplification on electrophysiological measures
- identify the association between age-related hearing loss and cognition
- discuss the safety and efficacy of AUT0063 in individuals with age-related hearing loss
- describe the aspects of cognition which are most often examined in relation to auditory perception

PROGRAM HISTORY

Start date: October 25, 2018
Available through: October 23, 2021

IMPORTANT INFORMATION

To earn continuing education credit, you must complete the test with a passing score on or before October 23, 2021.

To see if this program has been renewed after this date, please search by title in ASHA’s online store at www.asha.org/shop.

This course is offered for 0.20 ASHA CEUs (Intermediate level, Professional area).